

## Probability



1. Using the probability line state which event is more probable.

- a) You fall into a pond and come out dry      (b) You see an elephant walk by your house  
or  
You climb a flight of stairs      or  
You see a dog walk by your house

2. (a) Which of these animals is a person living in a town most likely to see next?



(b) Draw a probability line showing the likelihood of a person living in a town seeing each of these animals.

3. A dice is rolled.

- (a) List all the possible outcomes  
(b) List all the even numbers  
(c) What is the probability of rolling an even number?  
(d) List the outcomes less than 3  
(e) What is the probability of rolling a number less than 3?  
(f) What is the probability of rolling a number more than 3?



4. A dice is rolled. Calculate the probability that the result will be:

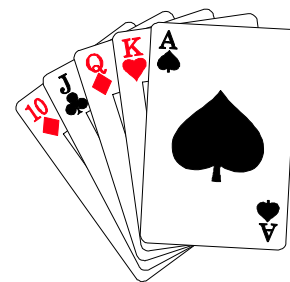
- (a) a 2  
(b) a score greater than 3  
(c) an odd number

5. A letter is chosen from the word INTERMEDIATE.

Find the probability that it will be:

- (a) a vowel      (b) T      (c) E      (d) M

6. A card is drawn from a deck of 52 playing cards.  
Find the probability that it will be a

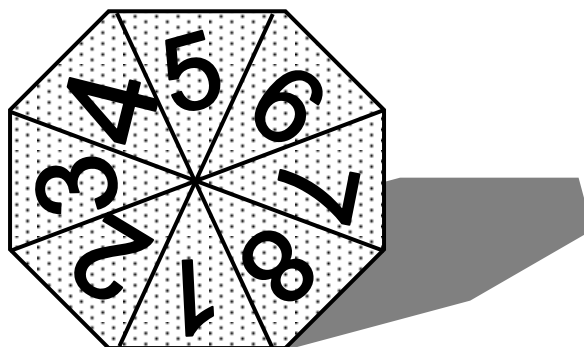


- (a) Club (b) red card  
(c) Ace (d) face card  
(e) 3 of spades. (f) a black king

7. A bag contains 3 red discs, 5 blue discs and 2 green discs.  
A disc is chosen at random from the bag. Find the probability that the disc is:
- (a) blue (b) red (c) green (d) not red (e) white

8. This spinner is used in a game.  
What is the probability of getting:

- (a) a 6  
(b) an even number  
(c) a number greater than 5  
(d) a multiple of 3  
(e) a factor of 8  
(f) a number less than 3?



9.

number of people in flat	frequency
1	3
2	5
3	12
4	3
5	1
<i>Total</i>	24

The frequency table shows the results of a survey conducted in a block of flats to find out how many people were living in each house.  
What is the probability that a flat chosen at random will contain:

- (a) 3 people  
(b) 2 people  
(c) less than 3 people  
(d) 4 or more people?